

Aegis M-type Module Specification

Monocrystalline 6X12 Solar Modules for Salt Field Type

380-405Wp



Electrical Data

Model Name	TS72-6M3-380 H1	TS72-6M3-385 H1	TS72-6M3-390 H1	TS72-6M3-395 H1	TS72-6M3-400 H1	TS72-6M3-405 H1
Max. power at STC	Pmax W 380	385	390	395	400	405
Max. power voltage	Vpmax V 38.98	39.11	39.32	39.51	39.79	40.05
Max. power current	Ipmax A 9.79	9.86	9.94	10.02	10.09	10.13
Open circuit voltage	Voc V 48.29	48.32	48.36	48.39	48.42	48.45
Short circuit current	Isc A 10.25	10.34	10.46	10.55	10.65	10.75
Module Conversion Eff.	% 19.04%	19.29%	19.54%	19.79%	20.04%	20.29%

* Under Standard Test Condition(1,000W/m²,25°C,AM 1.5): Power Tolerance ±3%
 * Module Conversion Eff. (%) = [Max power at STC(w) / ((Solar Module Area(m²) x 1000 (w/m²))] x 100%

General Data

Cell type	6" Monocrystalline
Cell per module	Mono-crystalline silicon solar cell
Front	Low-iron tempered glass
Encapsulant Film	Low water vapor transmission rate (WVTR) material
Rear	Anti-Salt Mist composite film
Frame	Anti-Salt Mist 6063T5 aluminum
Junction Box	IP68
Connector	EVO-2 / EVO-2 Compatible
Cable	1200mm / 12 AWG / 4mm ²

Operation Conditions

Max. system voltage	1500V
Module fire resistance class	Class C
Protection Class (IEC 61140)	Class II
Series fuse rating	15 A
Number of bypass diodes	3
Temperature range	-40 to +85°C
Max. mechanical load	5400 pa(front side) 3600 Pa(rear side)

Temperature Coefficient

Nominal Operating Cell Temperature	NOCT	°C	43±2
TC Isc	α	%/°C	+0.07
TC Voc	β	%/°C	-0.28
TC Pmax	γ	%/°C	-0.37

Module Dimensions and Weight

Dimension	1,992 x 1002 x 40 mm
Weight	22.5 Kg

Engineering Drawing(mm)

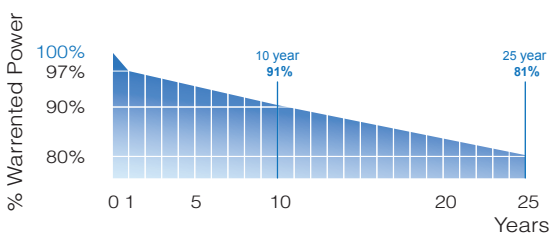
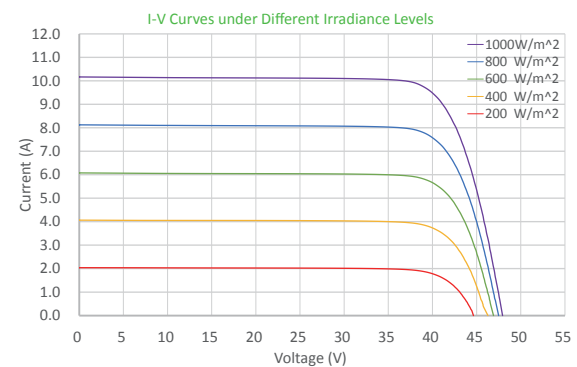
Mounting Hole
Grounding Hole + Grounding Mark
Frame Cross Section

Certifications

- IEC 61215:2016 、 IEC 61730-1:2016 & IEC 61730-2:2016
- ISO 9001:2015 Quality management system
- ISO 14001:2015 Environmental management system
- ISO 45001:2018 Occupational health and safety management system



IV Curve



- #### Warranty
- 12-year materials and workmanship warranty
 - 25-year linear power warranty

Made in Taiwan

* The information in this document is subject to change without notice * TSEC reserves the rights of final interpretation and revision of datasheet. Version: Second edition, April 2023.

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